

<=2> GET 1st DRAWING SHEET OF 2

Jun. 27, 2000

Creatine amidinohydrolase, production thereof and use
thereof

REISSUE: Reissue Application filed Aug. 28, 2001 (O.G. Nov. 27, 2001) Ex. Gp.:
1652; Re. S.N. 09/940,941

INVENTOR: Sogabe, Atsushi, Tsuruga, Japan
Hattori, Takashi, Tsuruga, Japan
Nishiya, Yoshiaki, Tsuruga, Japan
Kawamura, Yoshihisa, Tsuruga, Japan

ASSIGNEE-AT-ISSUE: Toyo Boseki Kabushiki Kaisha, Osaka, Japan (03)

APPL-NO: 799,897

FILED: Feb. 13, 1997

FOR-PRIOR:
Feb. 13, 1996 Japan 8-025435

INT-CL: [7]. C12Q 1#34; C12N 9#78; C12N 1#20; C12N 1#00

US-CL: 435#18; 435#227; 435#192; 435#252.3; 435#320.1; 435#829; 435#252.33

CL: 435

SEARCH-FLD: 435#18, 227, 252.1, 320.1, 829, 192, 252.3, 252.33

REF-CITED:

U.S. PATENT DOCUMENTS

3,806,420	4/1974	*	Holz et al.	195#66
3,907,644	9/1975	*	Mollering et al.	195#99
5,451,520	9/1995	*	Furukawa et al.	435#227

FOREIGN PATENT DOCUMENTS

6080553 OR 6,080,553

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

PLUS PAT
?PRT FULL NONSTOP LEGALALL

1/1 PLUSPAT - (C) QUESTEL-ORBIT
PN - US6080553 A 20000627 [US6080553]
TI - (A) Creatine amidinohydrolase, production thereof and use thereof
PA - (A) TOYO BOSEKI (JP)
IN - (A) SOGABE ATSUSHI (JP); HATTORI TAKASHI (JP); NISHIYA YOSHIAKI (JP); KAWAMURA YOSHIHISA (JP)
AP - US79989797 19970213 [1997US-0799897]
PR - JP2543596 19960213 [1996JP-0025435]
IC - (A) C12N-001/00 C12N-001/20 C12N-009/78 C12Q-001/34
EC - C12Q-001/34
- G01N-033/52
PCL - ORIGINAL (O) : 435018000; CROSS-REFERENCE (X) : 435192000 435227000
435252300 435252330 435320100 435829000
DT - Corresponding document
CT - US3806420; US3907644; US5451520; JP62091182; JP07265074
STG - (A) United States patent
AB - A creatine amidinohydrolase having the following physicochemical properties:
Action: catalyzing the following reaction;
- creatine+H₂O --> sarcosine+urea
Optimum temperature: about 40-50 (degree) C.
Optimum pH: pH about 8.0-9.0
Heat stability: not more than about 50 (degree) C. (pH 7.5, 30 min)
Km value for creatine in a coupling assay using a sarcosine oxidase and a peroxidase: about 3.5-10.0 mM
Molecular weight: about 43,000 (SDS-PAGE)
Isoelectric point: about 3.5,
a method for producing said enzyme, comprising culture of microorganism producing said enzyme, a method for the determination of creatine or creatinine in a sample using said enzyme, and a reagent therefor.
UP - 2000-26

1/1 LGST - (C) LEGSTAT
PN - US 6080553 [US6080553]
AP - US 799897/97 19970213 [1997US-0799897]
DT - US-P
ACT - 19970213 US/AE-A
APPLICATION DATA (PATENT)
{US 799897/97 19970213 [1997US-0799897]}
- 20000627 US/A
PATENT
- 20011127 US/RF
REISSUE APPLICATION FILED
20010828
UP - 2001-49

1/1 CRXX - (C) CLAIMS/RRX
PN - 6,080,553 A 20000627 [US6080553]
PA - Toyo Boseki K K JP
ACT - 20010828 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20011127
REISSUE REQUEST NUMBER: 09/940941
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1652

Reissue Patent Number:

Search statement 2

?FILE INPADOC

PLUSPAT - Time in minutes : 1,23
The cost estimation below is based on Questel's
standard price list

Estimated cost :	2.70 USD
Records displayed and billed :	1
Estimated cost :	1.10 USD
Cost estimated for the last database search :	3.80 USD
Estimated total session cost :	4.97 USD

LGST - Time in minutes : 0,12
The cost estimation below is based on Questel's
standard price list

Estimated cost :	0.13 USD
Records displayed and billed :	1
Estimated cost :	0.57 USD
Cost estimated for the last database search :	0.70 USD
Estimated total session cost :	5.67 USD

CRXX - Time in minutes : 0,11
The cost estimation below is based on Questel's
standard price list

Estimated cost :	0.16 USD
Records displayed and billed :	1
Estimated cost :	5.00 USD
Cost estimated for the last database search :	5.16 USD
Estimated total session cost :	10.83 USD

PAST - Time in minutes : 0,03
The cost estimation below is based on Questel's
standard price list

Estimated cost :	0.05 USD
Cost estimated for the last database search :	0.05 USD
Estimated total session cost :	10.88 USD

LITA - Time in minutes : 0,03
The cost estimation below is based on Questel's
standard price list

Estimated cost :	0.05 USD
Cost estimated for the last database search :	0.05 USD
Estimated total session cost :	10.93 USD

Selected file: INPADOC

You are now connected to INPADOC
Covers 1968/1973 thru weekly updates (2002-05)
For information on content, (..)INFO INPD.

Search statement 1

?FAM US6080553/PN

1 Patent Groups

** SS 1: Results 6

Search statement 2

?FAMSTATE NONSTOP

1/6 INPADOC - (C) INPADOC

PN - EP 1132467 A2 20010912 [EP1132467]

TI - NOVEL CREATINE AMIDINOHYDROLASE, PRODUCTION THEREOF AND USE THEREOF

LA - ENG

IN - SOGABE ATSUSHI [JP]; HATTORI TAKASHI [JP]; NISHIYA YOSHIAKI [JP];
KAWAMURA YOSHIHISA [JP]

PA - TOYO BOSEKI [JP]

AP - EP 1113052/01-A 19970213 [2001EP-1113052]

PR - EP 97102270/97-A3 19970213 [1997EP-0102270]

- JP 25435/96-A 19960213 [1996JP-0025435]

IC - C12N-009/78; C12N-009/80; C12Q-001/34

DS - DE* FR* GB* IT*

1/2 LEGALI - (C) LEGSTAT

PN - EP 1132467 [EP1132467]

AP - EP 01113052/01 19970213 [2001EP-0113052]

DT - EP-P

ACTE- 19970213 EP/AE-A

EP-APPLICATION

{EP 01113052/01 19970213 [2001EP-0113052]}

- 20010912 EP/AC-P

DIVISIONAL APPLICATION (ART. 76) OF:

(EP 790303 20010912 [EP-790303])

- 20010912 EP/AK-A2 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:

DE FR GB IT

- 20010912 EP/A2 [+]

~~PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT~~

- 20011010 EP/AK-A3 [+]

DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:

DE FR GB IT

- 20011010 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

- 20011205 EP/17P [+]

REQUEST FOR EXAMINATION FILED

20011010

UP - 2001-51

2/2 LEGALI - (C) LEGSTAT

PN - EP 790303 [EP-790303]

AP - EP 97102270/97 19970213 [1997EP-0102270]

DT - EP-P

ACTE- 19970213 EP/AE-A

EP-APPLICATION

{EP 97102270/97 19970213 [1997EP-0102270]}

- 19970820 EP/AK-A1 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
DE FR GB IT
- 19970820 EP/A1 [+]
PUBLICATION OF APPLICATION WITH SEARCH REPORT
- 19980311 EP/RIN1
INVENTOR (CORRECTION)
SOGABE, ATSUSHI, TOYO BOSEKI K.K. * HATTORI, TAKASHI, TOYO BOSEKI K.K.
* NISHIYA, YOSHIKI, TOYO BOSEKI K.K. * KAWAMURA, YOSHIHISA, TOYO
BOSEKI K.K.
- 19980318 EP/17P [+]
REQUEST FOR EXAMINATION FILED
980114
- 19991103 EP/17Q [+]
FIRST EXAMINATION REPORT
19990920
- 20010808 EP/18W [-]
WITHDRAWN
20010608
- 20010912 EP/AH-P
DIVISIONAL APPLICATION (ART. 76) IN:
(EP 1132467 20010912 [EP1132467])

UP - 2001-37

2/6 INPADOC - (C) INPADOC

PN - EP 1132467 A3 20011010 [EP1132467]
TI - NOVEL CREATINE AMIDINOHYDROLASE, PRODUCTION THEREOF AND USE THEREOF
LA - ENG
IN - SOGABE ATSUSHI [JP]; HATTORI TAKASHI [JP]; NISHIYA YOSHIKI [JP];
KAWAMURA YOSHIHISA [JP]
PA - TOYO BOSEKI [JP]
AP - EP 1113052/01-A 19970213 [2001EP-1113052]
PR - EP 97102270/97-A3 19970213 [1997EP-0102270]
- JP 25435/96-A 19960213 [1996JP-0025435]
IC - C12N-009/78; C12N-009/80; C12Q-001/34
DS - DE* FR* GB* IT*

1/2 LEGALI - (C) LEGSTAT

PN - EP 1132467 [EP1132467]
AP - EP 01113052/01 19970213 [2001EP-0113052]
~~DT - EP-P~~
ACTE- 19970213 EP/AE-A
EP-APPLICATION
{EP 01113052/01 19970213 [2001EP-0113052]}

- 20010912 EP/AC-P
DIVISIONAL APPLICATION (ART. 76) OF:
(EP 790303 20010912 [EP-790303])
- 20010912 EP/AK-A2 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:
DE FR GB IT
- 20010912 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT
- 20011010 EP/AK-A3 [+]
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:
DE FR GB IT
- 20011010 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)
- 20011205 EP/17P [+]
REQUEST FOR EXAMINATION FILED
20011010

UP - 2001-51

2/2 LEGALI - (C) LEGSTAT

PN - EP 790303 [EP-790303]

AP - EP 97102270/97 19970213 [1997EP-0102270]

DT - EP-P

ACTE- 19970213 EP/AE-A

EP-APPLICATION

{EP 97102270/97 19970213 [1997EP-0102270]}

- 19970820 EP/AK-A1 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:

DE FR GB IT

- 19970820 EP/A1 [+]

PUBLICATION OF APPLICATION WITH SEARCH REPORT

- 19980311 EP/RIN1

INVENTOR (CORRECTION)

SOGABE, ATSUSHI, TOYO BOSEKI K.K. * HATTORI, TAKASHI, TOYO BOSEKI K.K.

* NISHIYA, YOSHIKI, TOYO BOSEKI K.K. * KAWAMURA, YOSHIHISA, TOYO

BOSEKI K.K.

- 19980318 EP/17P [+]

REQUEST FOR EXAMINATION FILED

980114

- 19991103 EP/17Q [+]

FIRST EXAMINATION REPORT

19990920

- 20010808 EP/18W [-]

WITHDRAWN

20010608

- 20010912 EP/AH-P

DIVISIONAL APPLICATION (ART. 76) IN:

(EP 1132467 20010912 [EP1132467])

UP - 2001-37

3/6 INPADOC - (C) INPADOC

PN - EP 790303 A1 19970820 [EP-790303]

TI - NOVEL CREATINE AMIDINOHYDROLASE, PRODUCTION THEREOF AND USE THEREOF

LA - ENG

IN - SOGABE ATSUSHI [JP]; HATTORI TAKASHI [JP]; NISHIYA YOSHIKI [JP];

KAWAMURA YOSHIHISA [JP]

PA - TOYO BOSEKI [JP]

AP - EP 97102270/97-A 19970213 [1997EP-0102270]

PR - JP 25435/96-A 19960213 [1996JP-0025435]

IC - C12N-009/78; C12N-009/80; C12Q-001/34

DS - DE* FR* GB* IT*

1/2 LEGALI - (C) LEGSTAT

PN - EP 1132467 [EP1132467]

AP - EP 01113052/01 19970213 [2001EP-0113052]

DT - EP-P

ACTE- 19970213 EP/AE-A

EP-APPLICATION

{EP 01113052/01 19970213 [2001EP-0113052]}

- 20010912 EP/AC-P

DIVISIONAL APPLICATION (ART. 76) OF:

(EP 790303 20010912 [EP-790303])

- 20010912 EP/AK-A2 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:

DE FR GB IT

- 20010912 EP/A2 [+]

PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

- 20011010 EP/AK-A3 [+]

DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:

DE FR GB IT

- 20011010 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

- 20011205 EP/17P [+]

REQUEST FOR EXAMINATION FILED

20011010

UP - 2001-51

2/2 LEGALI - (C) LEGSTAT

PN - EP 790303 [EP-790303]

AP - EP 97102270/97 19970213 [1997EP-0102270]

DT - EP-P

ACTE- 19970213 EP/AE-A

EP-APPLICATION

{EP 97102270/97 19970213 [1997EP-0102270]}

- 19970820 EP/AK-A1 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:

DE FR GB IT

- 19970820 EP/A1 [+]

PUBLICATION OF APPLICATION WITH SEARCH REPORT

- 19980311 EP/RIN1

INVENTOR (CORRECTION)

SOGABE, ATSUSHI, TOYO BOSEKI K.K. * HATTORI, TAKASHI, TOYO BOSEKI K.K.

* NISHIYA, YOSHIKI, TOYO BOSEKI K.K. * KAWAMURA, YOSHIHISA, TOYO

BOSEKI K.K.

- 19980318 EP/17P [+]

REQUEST FOR EXAMINATION FILED

980114

- 19991103 EP/17Q [+]

FIRST EXAMINATION REPORT

19990920

- 20010808 EP/18W [-]

WITHDRAWN

20010608

- 20010912 EP/AH-P

DIVISIONAL APPLICATION (ART. 76) IN:

(EP 1132467 20010912 [EP1132467])

UP - 2001-37

4/6 INPADOC - (C) INPADOC

PN - JP 3075390 B2 20000814 [JP3075390]

IN - SOGABE ATSUSHI; HATSUTORI TAKASHI; NISHA YOSHIKI; KAWAMURA YOSHIHISA

PA - TOYO BOSEKI

AP - JP 25435/96-A 19960213 [1996JP-0025435]

PR - JP 25435/96-A 19960213 [1996JP-0025435]

IC - C12N-009/78; C12N-015/09; C12N-009/78; C12R-001/05; C12N-009/78;

C12R-001/19; C12N-015/09; C12R-001/19

5/6 INPADOC - (C) INPADOC

PN - JP 9215494 A2 19970819 [JP09215494]
TI - NEW CREATINE AMIDINOHYDROLASE, ITS PRODUCTION AND ITS USE
IN - SOGABE ATSUSHI; HATTORI TAKASHI; NISHIYA YOSHIKI; KAWAMURA YOSHIHISA
PA - TOYO BOSEKI
AP - JP 25435/96-A 19960213 [1996JP-0025435]
PR - JP 25435/96-A 19960213 [1996JP-0025435]
IC - C12N-009/78; C12N-015/09; C12N-009/78; C12R-001/05; C12N-015/09;
C12R-001/19

6/6 INPADOC - (C) INPADOC

PN - US 6080553 A 20000627 [US6080553]
TI - CREATINE AMIDINOHYDROLASE, PRODUCTION THEREOF AND USE THEREOF
IN - SOGABE ATSUSHI [JP]; HATTORI TAKASHI [JP]; NISHIYA YOSHIKI [JP];
KAWAMURA YOSHIHISA [JP]
PA - TOYO BOSEKI [JP]
AP - US 799897/97-A 19970213 [1997US-0799897]
PR - JP 25435/96-A 19960213 [1996JP-0025435]
IC - C12Q-001/34; C12N-009/78; C12N-001/20; C12N-001/00

1/1 LEGALI - (C) LEGSTAT

PN - US 6080553 [US6080553]
AP - US 799897/97 19970213 [1997US-0799897]
DT - US-P
ACTE- 19970213 US/AE-A
APPLICATION DATA (PATENT)
{US 799897/97 19970213 [1997US-0799897]}
- 20000627 US/A
PATENT
- 20011127 US/RF
REISSUE APPLICATION FILED
20010828
UP - 2001-49

Search statement 2

?..ST